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An Annotated Bibliography of Oak Wilt, 1943-80

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Annotated Bibliography of Oak Wilt 1943-80

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January 1984

Introduction

Oak wilt, caused by the fungus Ceratocystis fagacearum (Bretz) Hunt, is the most devastating vascular wilt disease of oaks. Short-distance spread of this disease occurs when the fungus grows through root grafts between root systems of neighboring oak trees. It is believed that several species of wood-boring insects can vector the oak wilt fungus, spreading it over long distances.

At present, control options arc limited. Chemotherapy of infected trees has had only spotty success. Prevention of the disease is accomplished by removing all dead trees (sanitation) and breaking all root grafts between infected and healthy root systems, either by trenching or by chemical disruption.

The disease causes economic loss in a variety of ways. Many trees simply are not used when they die. Of those that are salvaged, many are degraded due to staining of the vascular system, which can occur in diseased trees. Quarantine restrictions have had a direct effect on the overseas shipment of oak logs; extra processing or certification (which means extra cost) is now required. In addition, losses occur in the urban environment, where esthetic loss far exceeds the current timber value of the trees.

The following annotated bibliography was prepared to facilitate further research into the behavior and control of this disease. Author and subject indexes are included, and each citation is annotated by appropriate subject categories. A list of subject category codes is found before the body of the bibliography.

The literature dealing with oak wilt as a discrete disease problem began with the publication of "An Undescribed Disease Causing Rapid Dying of Oak Trees" (Henry & Moses 1943). Although we have included a few citations that predate this article, concentrated effort was not made to evaluate literature prior to 1943 dealing with oak mortality (which, in retrospect, might have dealt with oak wilt).

While an exhaustive search has been attempted, we are certain that there have been some oversights. Please aid us by referring further information to: Oak Wilt Bibliography, USDA Forest Service, Forest Pest Management, 1720 Peachtree Rd. N.W., Atlanta, GA 30367.

It is suggested that users of this bibliography contact university libraries before ordering reprints. Several of the listed libraries now charge user fees for the search and reproduction of material.

Subject Category Codes

BB - Bibliography.

BL - Bole damage, to host.

BR - Branch damage, to host

CH - Chemical control of the disease.

CL - Ecology•••general.

CM - Fungus/fungus competition.

CN - Infection process.

CR - Biological control of the disease.

CS - Silvicultural control of the disease.

CT - Control•••not CR, CR, CS, or PR.

DM - Wounding of the host prior to infection.

DN - Uendrology (host taxonomy).

DP - Damage caused by the pathogen.

FM - Field method.

FR - Host in a forest environment.

FS - Forestry/silviculture•••general.

GG - Geographic range of the disease.

GN - Genetics of the pathogen.

HP - History/philosophy.

HS - Host anatomy.

HT - Host range of the disease.

HZ - Hazard rating.

LF - Leaf damage, to host.

LM - Laboratory method.

LT - Literature review.

MC - Mycology•••general.

MP - Loss assessment /impact

NC - Dispersal of the pathogen.

NR - Host in a nursery environment.

NT - Fungal anatomy.

PD - Epidemiology of the disease.

PR - Prevention of the disease.

PS - Fungal (pathogen) physiology.

PT - Pathology•••general.

PX - Phytoxicity.

RB - Root and butt damage, to host.

RM - Remote sensing.

RN - Host in urban environment.

RS - Resistance of host to wilt.

SL - Damage done to slash.

SR - Periodicity of the pathogen.

ST - Staining or other effect of pathogen on host.

SV - Survey report.

TL - Etiology of the disease.

TN - Pathogen taxonomy.

TQ - Equipment or tool.

TZ - Utilization of diseased wood.

VC - Entomology•••general.

VN - Vectoring process.

WL - Wilting process.

XM - Experimental method.

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Martin, J. P. ----- 603.
Martin, S. C.----- 604.
Matazewski, M. ----- 605.
Maxwell, A. H. - 522, & 523.
May, C. -- 327, 606, 607, 608, & 609.
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Morris C. L. -- 196, 197, 198, 291, 297, 638, 639, 640, 641, 642, & 643.
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Moses, C. S. -- 421, 422, 423, & 424.
Murphy, D. R. -- 644, 645, & 863.
Nair, V. M. G. -- 540, 541, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 751, 752, & 932.
Nance, N. W. -- 659, 660, 661, & 662.
Neel, W. W. -- 665.
Neiswander, R. B. -- 388, 389, 390, 391, & 666.
Nelson, J. C. -- 197, 198, 199, 200, & 818.
Newman, J. A. -- 667.
Nichols, J. O. -- 670.
Nicholson, C. R. -- 671.
Norris, D. M., Jr. -- 672, 673, 674, 675, 676, & 677.
Ohman, J. H. -- 679, & 680.
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Parmeter, J. R. -- 542, 685, 686, 687, 688, & 689.
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Patik, C. M. -- 796.
Peacher, P. H. -- 235, 236, 237, 238, 239, 240, 241, & 692.
Pengelly, D. L. -- 693, & 694.
Peplenski, J. D. -- 702, & 703.
Peterson, G. W. -- 704, & 988.
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Phelps, W. R. -- 513, 705, 706, 707, 708, & 709.
Pirone, P. P. -- 711.
Plumb, G. H. -- 712.
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Powers, H. R., Jr. -- 715.
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Riker, A. J. -- 73, 74, 75, 76, 248, 249, 250, 251, 423, 424, 425, 536, 537, 542, 543, 544, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 686, 687, 688, 689, 707, 708, 737, 738, 739, 740, 741, 742, 743, 834, 835, & 837.
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Roncadori, R. W. -- 744, 745, & 746.
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Ross, A. F. -- 542, 709, 747, & 748.
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Roth, E. R. -- 269, 270, 749, & 750.
Rumph, A. F. -- 558.
Sachs, I. B. -- 657, 751, & 752.
Saufley, G. C. -- 561.
Schmidt, R. A. -- 177, 182, 293, & 815.
Schenck, N. C. ----- 753.
Schien, R. D. -- 438.
Schneider, I. R. ---- 754.
Schneider, R. -- 755.
Schnur, G. L. -- 581.
Schoenweis, D. F. -- 756, & 757.
Schreiber, L. R. -- 366, 758, & 759.
Schroder, D. B. -----335.
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Seymour, C. P. ----974.
Shain, L. -- 769, & 770.
Shenefelt, R. D. -- 584, 585, 586, 587, 771, 772, & 773.
Shields, I. J. -- 258, 774, 775, & 776.
Shigo, A. L. -- 357, 777, 778, 779, & 780.
Shotwell, W. -- 781, & 782.
Skalbeck, T. C. ----- 783.
Skelly, J. M. -- 620, 671, 784, 785, 786, 787, 788, 789,790,791,792, 793, 947, & 985.
Skilling, D. D. ---- 39.
Slabaugh, W. R. ------794.
Smith, G. G. -- 975.
Smith, H. E. -- 795.
Smith, M. J. -- 796.
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Speers, C. F. ------101.
Spencer, S., Jr. ---- 803.
Spilker, 0. W. -- 804, 805, 806, 807, 1006, & 1008.
Sprangers, A. C. -----808.
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Tehon, L. R. -- 853.
Templeton, L. -- 854, & 855.
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Thompson, D. H. -- 858.
Thompson, G. E. -- 632.
Thompson, H. C. -- 859, & 1016.
Thompson, H. E. -- 643, 817, & 860.
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Tiffany, L. H. -- 862, & 863.
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Tucker, C. M. -- 881, & 882.
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Venn, K. 0. -- 540, 541, & 932.
Verrall, A. F. ---- 933.
Waggoner, P. E. ---- 936.
Walters, C. S.---- 937.
Warder, J. A.----- 938.
Wargo, P. M. -- 411, & 939.
Washburn. B. ---- 847.
Waterman, A. M.----- 602.
Weaver, L. 0. -- 940, 941, & 942.
Weiss, F. A. ----- 943.
Weiss, M. J. -- 253, & 692.
Went, J. C. -- 945, & 946.
Wertz, H. W.. II -- 947, & 948.
Westveld, R. H. -- 142, & 953.
Wharton, D. C. -- 294, & 295.

White, I. G. -- 954, 955, 956, & 957.
White, R. -- 958.
Wilhour, R. G. -- 959, & 960.
Wilkins, V. E. -- 961.
Willey, G. F. -- 962.
Williamson, D. L. -- 242, & 243.
Willins, H. H. --963.
Willis, W. G. -- 704.
Wilson, C. L. -- 4, 5, 6, 7, 362, 380, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, & 976.
Wilson, E. M. -- 977.
Winget, C. H. -- 524, & 525.
Witcher, W. -- 982.
Wolf, F. T. -- 954, & 957.
Wolf, R. F. ----- 692.
Wolter, K. E. ----- 658.
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Wood, R. J. ---- 176.
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Wysong, N. B. -- 170, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, & 999.
Yelenosky, G. -- 1000, & 1001.
Young, H. C. -- 66, 67, 807, 1002, 1003, 1004, 1005, 1006, 1007, & 1008.
Young, R. A. -- 226, 227, 592, 593, 1009, 1010, & 1111.
Yount, W. L. -- 296, 297, 1012, 1013, 1014, 1015, & 1016.

Zuckerman, B. M. -- 213, 214, 447, 822, 853, 937, 1017, 1018, 1019, 1020, 1021, 1022, & 1023.

Anatomy---fungus (NT) - 4, 23, 56, 61, 80, 84, 108, 156, 185, 219, 232, 248, 259, 262, 265, 282, 292, 341, 370, 397, 542, 557, 691, 695, 703, 731, 732, 736, 766, 862, 883, 930, 964, 965, 975, 983, 985, 998, 1010.

Anatomy---host (HS) - 61, 70, 71, 153, 203, 271, 294, 410, 512, 524, 534, 557, 589, 590, 646, 647, 648, 655, 687, 688, 729, 751, 757, 817, 823, 834, 835, 836, 837, 849, 870, 885, 970, 973, 985, 997, 1007, 1010.

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Bole---host symptom location (BL) - 33, 52, 53, 84, 111, 162, 207, 215, 216, 225, 251, 254, 266, 268, 270, 299, 338, 347, 349, 375, 403, 425, 447, 495, 501, 506, 510, 511, 552, 553, 650, 651, 652, 653, 656, 670, 681, 756, 779, 788, 789, 794, 808, 836, 876, 911, 931, 939, 1000, 1001, 1003.

Branch---host symptom location (BR) - 33, 99, 162, 181, 254, 306, 338, 341, 349, 392, 400, 401, 403, 425, 447, 449, 483, 494, 553, 572, 575, 597, 599, 651, 675, 681, 793, 805, 837, 876, 928, 931, 939.

Colonization - see Infection process.

Competition---fungus/fungus (CM) - 33, 107, 110, 217, 340, 348, 516, 597, 745, 746, 777, 778, 779, 780, 837, 984.

Containerized seedlings - see Nursery.

Control---biological (CR) - 9, 13, 30, 88, 91, 126, 172, 206, 215, 217, 220, 222, 225, 226, 229, 246, 247, 287, 317, 319, 328, 330, 331, 361, 367, 368, 378, 406, 433, 439, 460, 463, 468, 472, 484, 504, 526, 530, 547, 551, 553, 569, 578, 591, 593, 603, 610, 626, 634, 645, 655, 667, 680, 742, 744, 757, 782, 800, 809, 824, 840, 844, 845, 874, 876, 887, 890, 892, 981, 1003, 1007.

Control---chemical (CH) - 8, 13, 16, 45, 88, 91, 95, 97, 106, 110, 126, 171, 172, 195, 200, 203, 205, 206, 220, 222, 229, 246, 247, 269, 271, 286, 287, 289, 310, 316, 317, 319, 323, 336, 366, 372, 374, 375, 377, 378, 406, 433, 434, 439, 440, 441, 442, 443, 445, 448, 450, 451, 460, 463, 468, 472, 481, 489, 496, 501, 502, 504, 505, 509, 510, 519, 526, 528, 530, 531, 534, 543, 544, 545, 551, 564, 569, 571, 573, 580, 593, 594, 596, 612, 617, 626, 645, 655, 658, 665, 667, 678, 680, 690, 698, 700, 706, 707, 708, 709, 726, 736, 741, 742, 743, 753, 754, 766, 769, 770, 786, 787, 791, 799, 809, 823, 861, 874, 876, 887, 890, 892, 896, 897, 902, 914, 916, 919, 920, 925, 926, 932, 950, 951, 953, 974, 986, 996, 998, 1006, 1019.

Control---natural - see Control---biological.

Control... silvicultural (CS) - 8, 9, 13, 22, 88, 95, 126, 172, 205, 206, 220, 222, 225, 226, 229, 246, 247, 256, 287, 317, 319, 321, 325, 330, 331, 335, 336, 366, 367, 406, 432, 433, 460, 463, 468, 472, 496, 500, 504, 505, 509, 526, 530, 534, 544, 547, 551, 553, 569, 571, 591, 593, 602, 606, 607, 610, 626, 634, 645, 655, 667, 715, 721, 741, 742, 743, 755, 766, 769, 786, 787, 799, 803, 824, 829, 874, 876, 885, 887, 890, 892, 970, 974, 981, 986, 995, 1010, 1011.

Control---other (eg. quarantine) (CT) - 16, 45, 68, 195, 267, 269, 286, 320, 323, 357, 405, 406, 432, 451, 489, 519, 527, 528, 531, 532, 550, 617, 623, 627, 629, 630, 682, 698, 721, 727, 728, 766, 802, 803, 827, 841, 870, 894, 914, 916, 919, 920, 936, 946, 953, 961, 1020.

Control - see also Prevention.

Damage by pathogen (DP) - 3, 14, 45, 61, 83, 150, 151, 153, 203, 257, 259, 262, 265, 275, 294, 296, 318, 327, 341, 383, 399, 403, 411, 434, 438, 477, 478, 479, 495, 503, 513, 528, 568, 576, 636, 646, 717, 730, 731, 732, 734, 751, 752, 764, 766, 768, 781, 782, 803, 835, 837, 842, 844, 860, 861, 885, 908, 927, 931, 932, 956, 970, 974, 983, 1007, 1011, 1018.

Damage to host - see Wounding of host.

Decline - see Wilt.

Dendrology (DN) - 41, 45, 153, 286, 298, 310, 323, 327, 332, 401, 405, 450, 528, 581, 766, 776, 883.

Disease range (GG) - 2, 8, 16, 29, 32, 39, 40, 41, 43, 44, 45, 68, 87, 95, 97, 102, 105, 112, 113, 120, 135, 137, 149, 155, 158, 164, 165, 167, 188, 193, 195, 199, 200, 201, 204, 205, 218, 221, 223, 231, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 246, 258, 274, 280, 286, 291, 301, 303, 304, 308, 309, 310, 311, 312, 315, 316, 317, 319, 322, 323, 326, 328, 329, 334, 337, 340, 346, 350, 356, 358, 364, 365, 393, 394, 395, 396, 405, 412, 414, 421, 449, 450, 451, 452, 457, 458, 460, 466, 486, 490, 491, 498, 514, 515, 516, 520, 521, 527, 528, 530, 532, 544, 553, 558, 559, 561, 567, 570, 574, 576, 579, 585, 605, 609, 622, 623, 625, 626, 627, 629, 630, 632, 634, 636, 638, 659, 660, 661, 665, 692, 700, 704, 712, 714, 718, 719, 735, 749, 755, 758, 759, 760, 766, 767, 774, 775, 776, 781, 782, 795, 797, 798, 800, 802, 828, 830, 831, 841, 847, 853, 864, 865, 866, 868, 872, 873, 876, 886, 887, 891, 895, 896, 897, 898, 901, 902, 903, 904, 921, 924, 925, 933, 934, 942, 945, 946, 950, 951, 958, 961, 968, 969, 976, 979, 982, 988, 990, 991, 995, 998, 1003, 1004, 1005, 1006.

Dispersal (NC) ---see also Vectoring - 11, 20, 25, 28, 39, 45, 52, 58, 69, 79, 99, 31, 59, 62, 72, 82, 97, 108, 117, 118, 124, 154, 158, 167, 177, 180, 182, 183, 191, 196, 198, 200, 207, 209, 210, 211, 214, 229, 246, 260, 261, 282, 283, 285, 286, 292, 296, 302, 324, 327, 333, 345, 346, 357, 358, 361, 381, 388, 389, 397, 398, 403, 415, 426, 445, 448, 450, 464, 470, 477, 483, 491, 501, 504, 508, 512, 514, 520, 536, 537, 538, 542, 547, 548, 552, 563, 584, 585, 589, 612, 614, 615, 616, 618, 619, 621, 634, 636, 639, 645, 646, 649, 668, 669, 675, 680, 702, 703, 710, 713, 749, 758, 765, 766, 780, 781, 782, 803, 809, 813, 814, 815, 816, 822, 836, 858, 859, 860, 862, 875, 879, 880, 885, 912, 916, 917, 931, 949, 964, 965, 983, 990, 991, 997, 998, 1010, 1012, 1013, 1019, 1021.

Distribution - see Dispersal, Disease range, or Vectoring.

Ecology---general (CL) ---see also note under Host environment - 41, 64, 69, 72, 76, 82, 83, 90, 118, 153, 160, 191, 193, 197, 203, 216, 248, 253, 260, 261, 285, 290, 314, 333, 354, 357, 359, 360, 361, 362, 422, 483, 499, 524, 547, 563, 578, 581, 603, 639, 665, 670, 675, 680, 686, 706, 713, 714, 718, 722, 729, 744, 757, 758, 770, 790, 791, 801, 826, 842, 854, 855, 870, 905, 921, 938, 958, 959, 960, 984, 985, 1013, 1023.

Ecology... disease - see Epidemiology.

Entomology---general (EC) - 18, 27, 45, 59, 62, 65, 83, 95, 101, 129, 131, 147, 148, 149, 150, 152, 153, 154, 174, 179, 196, 198, 200, 202, 203, 210, 212, 216, 244, 245, 254, 265, 285, 286, 297, 324, 327, 342, 349, 381, 383, 384, 385, 386, 387, 388, 389, 411, 434, 435, 436, 438, 450, 470, 477, 482, 483, 493, 495, 513, 518, 524, 534, 555, 562, 576, 583, 586, 588, 620, 634, 638, 643, 645, 665, 668, 669, 670, 672, 673, 675, 681, 696, 702, 703, 710, 713, 721, 722, 723, 724, 725, 728, 730, 731, 732, 733, 734, 736, 741, 758, 760, 761, 766, 783, 784, 787, 797, 799, 800, 809, 814, 817, 844, 860, 870, 876, 880, 885, 901, 917, 939, 947, 948, 953, 974, 983, 985, 999, 1016.

Epidemiology---disease (PD) - 20, 22, 30, 52, 54, 58, 61, 63, 65, 69, 76, 84, 89, 95, 96, 97, 101, 102, 118, 123, 132, 136, 145, 147, 148, 151, 152, 156, 161, 181, 184, 191, 200, 209, 210, 211, 213, 221, 225, 245, 253, 254, 260, 263, 265, 278, 290, 302, 314, 324, 333, 336, 345, 346, 349, 350, 354, 357, 359, 360, 361, 362, 384, 385, 393, 400, 401, 403, 407, 411, 415, 423, 424, 426, 434, 435, 438, 455, 477, 479, 482, 490, 493, 495, 496, 499, 503, 504, 512, 513, 530, 531, 542, 544, 547, 548, 552, 555, 562, 563, 568, 570, 571, 572, 573, 576, 578, 584, 585, 591, 593, 602, 606, 607, 611, 612, 614, 615, 616, 619, 621, 636, 639, 643, 670, 673, 675, 680, 686, 702, 703, 706, 713, 714, 718, 721, 722, 724, 726, 734, 740, 786, 787, 788, 800, 801, 802, 803, 810, 811, 814,

Epidemiology (cont.) - 815, 816, 829, 840, 844, 845, 868, 873, 879, 883, 912, 915, 916, 921, 923, 931, 949, 959, 960, 961, 968, 969, 980, 984, 985, 990, 991, 997, 999, 1002, 1008, 1010, 1011, 1013, 1016.

Equipment (tools) (TQ) - 199, 369, 371, 375, 481, 508, 510, 803.

Etiology...disease (TL) - 30, 31, 42, 50, 57, 59, 62, 69, 72, 74, 75, 76, 85, 89, 95, 98, 99, 100, 108, 110, 118, 123, 124, 132, 141, 156, 158, 160, 161, 184, 197, 200, 213, 219, 255, 259, 260, 261, 262, 263, 264, 278, 284, 293, 295, 314, 324, 333, 341, 343, 345, 349, 357, 361, 372, 373, 378, 383, 393, 400, 401, 403, 411, 413, 422, 423, 424, 426, 454, 464, 479, 480, 481, 490, 503, 507, 512, 513, 515, 516, 531, 536, 542, 544, 552, 555, 556, 564, 565, 568, 570, 573, 574, 576, 588, 589, 590, 602, 606, 607, 619, 636, 646, 647, 648, 654, 657, 658, 660, 670, 671, 675, 685, 686, 689, 694, 703, 727, 736, 745, 746, 751, 752, 755, 757, 766, 770, 785, 786, 788, 789, 790, 792, 793, 802, 810, 813, 815, 829, 834, 835, 836, 837, 840, 844, 845, 846, 849, 852, 856, 870, 875, 877, 878, 879, 885, 923, 925, 932, 949, 966, 968, 970, 980, 983, 998, 1008, 1010, 1011, 1012, 1013, 1018.

Forest environment...host (FR) - 2, 9, 11, 13, 25, 27, 28, 29, 32, 39, 40, 42, 43, 44, 54, 65, 69, 72, 77, 78, 87, 88, 91, 97, 100, 102, 103, 105, 106, 112, 116, 118, 120, 126, 135, 137, 138, 139, 149, 150, 154, 155, 161, 165, 167, 171, 172, 174, 177, 181, 182, 192, 196, 201, 204, 205, 206, 207, 209, 216, 219, 223, 224, 226, 231, 235, 236, 237, 239, 241, 243, 246, 247, 254, 255, 256, 257, 258, 261, 274, 287, 290, 291, 292, 300, 302, 303, 304, 311, 312, 313, 314, 315, 316, 317, 319, 322, 324, 325, 326, 330, 331, 334, 336, 337, 339, 340, 346, 349, 350, 352, 354, 356, 358, 359, 364, 366, 367, 368, 369, 375, 381, 383, 384, 393, 394, 395, 396, 400, 401, 403, 406, 411, 412, 415, 416, 417, 426, 428, 435, 449, 452, 457, 461, 462, 463, 464, 465, 468, 469, 470, 472, 478, 479, 480, 483, 484, 485, 486, 488, 494, 496, 497, 500, 504, 509, 513, 520, 521, 522, 524, 526, 543, 544, 551, 552, 555, 556, 558, 559, 560, 561, 566, 567, 568, 569, 570, 572, 573, 574, 575, 576, 579, 580, 581, 583, 586, 589, 594, 597, 602, 603, 605, 611, 612, 613, 619, 623, 626, 631, 632, 634, 635, 636, 637, 638, 639, 640, 645, 646, 649, 655, 659, 660, 661, 667, 670, 678, 680, 681, 692, 693, 696, 704, 713, 714, 715, 716, 717, 720, 721, 724, 725, 727, 729, 730, 735, 737, 741, 742, 743, 744, 754, 755, 758, 759, 760, 762, 764, 766, 770, 774, 775, 781, 782, 783, 785, 786, 787, 789, 793, 797, 798, 799, 800, 801, 802, 803, 809, 810, 815, 818, 823, 824, 826, 828, 830, 831, 837, 838, 839, 841, 842, 844, 847, 848, 854, 855, 857, 858, 860, 861, 865, 866, 867, 870, 872, 874, 880, 886, 890, 891, 892, 893, 898, 901, 921, 925, 926, 927, 928, 929, 931, 933, 938, 939, 941, 942, 945, 958, 959, 960, 961, 962, 967, 969, 974, 976, 979, 981, 982, 986, 987, 988, 990, 991, 1004, 1005, 1006, 1007, 1012.

Forestry---general (FS) - 2, 9, 11, 18, 25, 27, 28, 29, 30, 32, 36, 37, 38, 39, 40, 43, 44, 50, 54, 57, 63, 64, 65, 69, 72, 78, 81, 82, 83, 85, 87, 88, 89, 90, 91, 94, 95, 96, 97, 99, 100, 101, 102, 103, 105, 106, 109, 110, 112, 113, 116, 118, 119, 120, 126, 128, 130, 132, 133, 135, 136, 138, 139, 140, 141, 145, 146, 147, 148, 150, 151, 152, 154, 155, 157, 161, 167, 170, 172, 177, 179, 181, 182, 186, 187, 188, 191, 193, 196, 197, 200, 201, 204, 205, 206, 207, 210, 211, 212, 214, 216, 217, 219, 225, 226, 229, 231, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 265, 272, 274, 280, 281, 284, 285, 287, 288, 289, 290, 291, 292, 296, 297, 298, 300, 302, 303, 311, 312, 313, 314, 315, 316, 317, 319, 322, 324, 325, 326, 327, 330, 331, 333, 335, 336, 342, 343, 349, 350, 351, 352, 354, 356, 357, 358, 359, 360, 361, 364, 366, 369, 371, 373, 374, 375, 376, 378, 383, 384, 385, 386, 387, 388, 392, 393, 394, 395, 396, 400, 401, 403, 406, 407, 411, 413, 415, 416, 417, 421, 422, 429, 434, 435, 436, 438, 439, 440, 441, 442, 443, 444, 445, 448, 452, 454, 457, 462, 463, 464, 465, 466, 469, 470, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 488, 493, 494, 495, 496, 497, 499, 500, 503, 504, 505, 507, 508, 509, 510, 512, 513, 519, 521, 522, 523, 524, 526, 543, 544, 545, 549, 551, 552, 556, 558, 559, 560, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 579, 580, 584, 585, 588, 594, 596, 597, 598, 599, 602, 603, 606, 607, 611, 612, 615, 616, 619, 620, 621, 623, 625, 626, 627, 629, 630, 631, 632, 633, 636, 637, 638, 639, 640, 643, 649, 654, 657, 658, 659, 660, 661, 665, 667, 668, 670, 671, 672, 673, 675, 678, 680, 681, 686, 687, 688, 689, 690, 691, 692, 693, 694, 696, 700, 701, 703, 704, 706, 707, 708, 709, 713, 714, 715, 716, 717, 719, 721, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 740, 741, 742, 743, 744, 750, 751, 755, 758, 764, 766, 770, 774, 775, 777, 778, 782, 783, 784, 785, 786, 787, 788, 789, 792, 793, 798, 799, 800, 801, 802, 803, 804, 805, 807, 809, 810, 814, 815, 817, 818, 822, 823, 824, 826, 828, 829, 830, 831, 834, 836, 837, 840, 841, 842, 844, 846, 847, 848, 852, 853, 854, 855, 857, 858, 860, 861, 864, 865, 866, 867, 868, 870, 872, 873, 874, 875, 877, 878, 885, 886, 890, 892, 893, 895, 898, 901, 921, 922, 923, 925, 928, 929, 931, 932, 933, 937, 938, 939, 941, 942, 946, 948, 949, 953, 958, 959, 960, 961, 962, 966, 967, 968, 969, 970, 973, 976, 979, 982, 983, 984, 985, 986, 988, 990, 991, 995, 996, 998, 999, 1002, 1004, 1005, 1006, 1007, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1018, 1019, 1020, 1021, 1023.

Fungus - see Mycology, Anatomy, Physiology, Taxonomy, Genetics, Disease range.

Genetics---fungus (GN) - 5, 7, 49, 54, 57, 60, 100, 281, 297, 429, 430, 431, 514, 515, 563, 598, 599, 655, 693, 804, 817, 870, 936, 971, 972, 1012.

Geographic range---disease - see Disease range.

Hazard rating (HZ) - 22, 37, 85, 103, 310, 413, 426, 434, 483, 615, 616, 807.

Histology---host - see Anatomy---host.

History (HP) - 27, 28, 40, 45, 68, 81, 93, 120, 132, 146, 205, 228, 286, 300, 310, 311, 314, 321, 329, 349, 363, 365, 402, 407, 409, 416, 421, 423, 424, 458, 464, 466, 469, 486, 488, 490, 498, SOS, 528, 531, 544, 550, *575, 577,* 588, 610, 615, 616, 622, 625, 663, 664, 683, 701, 712, 718, 719, 723, 749, 762, 765, 766, 767, 795, 800, 801, 803, 826, 853, 854, 855, 857, 861, 896, 897, 899, 900, 902, 903, 904, 905, 906, 912, 914, 915, 916, 917, 919, 920, 934, 938, 958, *959,* 963, 970, 976, 992, *994,* 995, 1010, 1015.

Host environment - see Forest site, Nursery, or Urban site.

Host---location of disease damage - see Bole, Branch, Leaf, Root and/or butt, or Slash.

Host range---species affected (HT) - 2, 40, 61, 63, 64, 105, 113, 114, 119, 120, 122, 128, 130, 135, 140, 155, 164, 170, 199, 201, 205, 215, 216, 223, 225, 246, 272, 296, 303, 304, 308, 309, 317, 319, 328, 346, 363, 393, 395, 403, 422, 457, 458, 460, 486, 520, 530, *544, 553,* 567, 583, 609, 626, 635, 636, 638, 685, 718, 719, 737, 759, 760, 766, 767, 776, 781, 782, 797, 802, 803, 841, 854, 855, 864, 876, 887, 891, 898, 925, 968, 979, 984, 990, 991, 998, 1003, 1004, 1005.

Impact---disease - see Loss assessment.

Infection---process (CN) - 8, 23, 38, 45, 54, 59, 61, 63, 69, 75, 76, 82, 83, 84, 91, 98, 114, 118, 136, 151, 154, 156, 181, 183, 184, 200, 210, 213, 219, 222, 244, 248, 259, 261, 262, 275, 278, 286, 294, 302, 318, 320, 324, *345,* 360, 370, 383, 397, 401, 403, 411, 413, 422, 426, 444, 454, 455, 477, 479, 480, 491, 495, 499, 503, 504, 507, 512, 513, 534, 548, *549, 557,* 574, *597, 599,* 612, 618, 619, 646, 647, 648, 654, 655, 675, 686, 687, 688, 689, 691, 693, 702, 717, 726, 728, 740, 751, 766, 770, 787, 788, 790, 792, 793, 809, 813, 814, 815, 818, 823, 824, 829, 834, 844, 883, 908, 928, 930, 931, 953, 956, 966, 967, 973, 983, 998, 1008, 1010, 1011, 1012, 1014, 1018.

Inoculum - see Dispersal.

Insect – see Entomology---general or Vectoring.

Leaf---host symptom location (LF) – 14, 104, 153, 178, 225, 264, 327, 338, 349, 350, 362, 397, 398, 403, 425, 447, 513, 553, 600, 670, 681, 686, 693, 750, 810, 849, 850, 859, 876, 956.

Literature review (LT) - 210, 219, 285, 426, 544, 589, 655, 713, 721, 725, 777, 824, 1003.

Loss assessment (MP) - 8, 14, 87, 153, 171, 203, 207, 257, 259, 262, 286, 303, 308, 309, 317, 318, 323, 328, 332, 337, 346, 352, 418, 432, 484, 485, 528, 561, 603, 611, 615, 616, 621, 655, 683, 690, 714, 716, 755, 799, 801, 803, 809, 818, 827, 854, 855, 857, 861, 872, 901, 926, 958, 962, 967, 992, 995, 998, 1002, 1007, 1010.

Manuals - see Methods.

Methods---experimental (XM) – 37, 94, 145, 267, 279, 284, 287, 288, 293, 325, 335, 357, 369, 371, 375, 406, 433, 439, 481, 500, 502, 510, 560, 568, 571, 573, 574, 580, 620, 643, 665, 680, 706, 707, 708, 709, 715, 724, 726, 870, 914, 916, 928, 983.

Methods---field (FM) --33, 37, 54, 91, 95, 102, 103, 141, 199, 205, 308, 309, 312, 314, 326, 336, 351, 352, 356, 361, 369, 371, 416, 417, 456, 481, 486, 488, 496, 504, 508, 510, 522, 523, 543, 560, 581, 602, 620, 690, 713, 714, 716, 721, 728, 766, 769, 770, 779, 783, 786, 787, 818, 823, 870, 875, 929, 980, 1002.

Methods---laboratory (LM) – 21, 46, 47, SO, 55, 59, 110, 127, 141, 157, 183, 212, 278, 279, 284, 288, 327, 371, 478, 517, 612, 618, 691, 733, 744, 780, 783, 817, 905, 929, 966, 971, 983, 1022, 1023.

Mycology---general (MC) - 4, 5, 6, 7' 11, 17, 20, 21, 22, 23, 31, 36, 38, 40, 45, 46, 47, 49, SO, 52, 54, 55, 56, 57, 58, 60, 61, 70, 71, 73, 74, 77, 78, 79, 80, 84, 85, 90, 94, 98, 100, 105, 107, 110, 114, 116, 117, 122, 123, 124, 127, 129, 131, 133, 135, 138, 139, 141, 145, 154, 156, 157, 158, 159, 163, 164, 170, 179, 180, 183, 185, 186, 187, 191, 196, 198, 205, 207, 209, 210, 211, 213, 214, 215, 216, 219, 220, 221, 222, 223, 224, 225, 232, 246, 257, 259, 260, 261, 262, 263, 269, 275, 278, 280, 281, 282, 283, 288, 289, 292, 293, 294, 295, 297, 313, 330, 331, 333, 335, 345, 357, 361, 362, 368, 370, 372, 377, 378, 379, 380, 394, 397, 398, 399, 401, 414, 419, 420, 422, 423, 424, 426, 429, 430, 431, 436, 441, 457, 459, 462, 465, 477, 491, 492, 493, 497, 514, 515, 517, 523, 524, 526, 528, 542, 543, 545, 546, 547, 548, 562, 563, 564, 565, 566, 567, 568, 578, 582, 584, 585, 589, 591, 593, 598, 610, 612, 613, 614, 618, 621, 631, 635, 636, 655, 672, 691, 695, 737, 744, 745, 746,

Mycology (cont.) - 751, 752, 753, 754, 755, 766, 768, 776, 778, 780, 785, 788, 790, 791, 796, 797, 804, 807, 809, 811, 814, 816, 817, 822, 824, 825, 831, 840, 845, 858, 859, 862, 867, 870, 875, 879, 880, 883, 893, 930, 931, 932, 947, 949, 954, 955, 956, 957, 962, 964, 965, 966, 971, 972, 975, 977, 979, 983, 984, 985, 993, 998, 1004, 1008, 1010, 1011, 1016, 1017, 1019, 1020, 1021, 1022.

Nursery...host environment (NR) - 284, 413, 694, 1023.

Other effect...pathogen on host (ST) ... see also Wilt - 101, 107, 108, 109, 145, 185, 216, 254, 269, 286, 380, 392, 405, 451, 572, 618, 691, 752, 921, 931, 939.

Pathology...general (PT) - 3, 8, 17, 20, 21, 22, 25, 27, 28, 29, 30, 32, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 50, 54, 55, 57, 58, 61, 63, 64, 65, 69, 75, 76, 77, 78, 81, 82, 83, 85, 89, 90, 91, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 105, 109, 110, 112, 113, 116, 117, 118, 119, 120, 122, 127, 128, 129, 130, 131, 132, 133, 135, 136, 137, 138, 139, 140, 141, 145, 146, 147, 148, 150, 151, 152, 153, 154, 156, 157, 158, 159, 160, 161, 163, 164, 165, 167, 170, 177, 179, 181, 182, 186, 187, 188, 191, 193, 197, 199, 200, 204, 205, 209, 210, 211, 212, 213, 214, 216, 217, 218, 219, 220, 222, 223, 224, 225, 231, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 248, 252, 253, 254, 255, 256, 258, 259, 260, 261, 262, 263, 264, 265, 269, 272, 274, 275, 277, 278, 280, 281, 285, 286, 288, 289, 290, 291, 292, 294, 296, 297, 302, 305, 310, 311, 312, 313, 314, 315, 316, 318, 321, 322, 324, 325, 326, 327, 330, 331, 333, 334, 335, 336, 337, 340, 341, 342, 343, 345, 346, 350, 351, 352, 354, 356, 357, 358, 359, 360, 361, 363, 364, 366, 368, 370, 371, 373, 374, 375, 376, 377, 378, 381, 383, 384, 385, 386, 387, 388, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 407, 411, 412, 413, 414, 416, 417, 419, 420, 421, 422, 423, 424, 426, 427, 428, 429, 430, 434, 435, 436, 438, 439, 440, 441, 442, 443, 444, 445, 448, 449, 452, 454, 455, 456, 457, 458, 461, 462, 464, 465, 466, 469, 477, 478, 479, 480, 481, 482, 483, 486, 488, 489, 490, 491, 493, 495, 496, 497, 499, 500, 503, 504, 505, 507, 508, 509, 510, 512, 513, 515, 516, 517, 519, 521, 522, 523, 524, 526, 527, 528, 531, 532, 534, 536, 537, 538, 542, 543, 544, 545, 546, 547, 549, 550, 552, 555, 556, 557, 558, 559, 560, 561, 562, 563, 566, 567, 568, 570, 571, 572, 573, 574, 575, 576, 578, 579, 580, 584, 585, 588, 589, 590, 591, 593, 594, 596, 597, 598, 599, 602, 603, 605, 606, 607, 609, 610, 611, 612, 613, 615, 616, 617, 618, 619, 620, 621, 623, 625, 627, 629, 630, 631, 632, 634, 635, 636, 637, 639, 640, 643, 647, 648, 649, 654, 657, 658, 659, 660, 661, 663, 664, 665, 670, 671, 672, 673, 675, 680, 681, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 698, 700, 701, 702, 703, 704, 706, 707, 708, 709, 713, 715, 717, 718, 719, 720, 721, 723, 724, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737,

Pathology (cont.) - 740, 741, 744, 745, 746, 747, 749, 750, 751, 752, 754, 755, 757, 758, 762, 764, 766, 768, 774, 775, 776, 777, 778, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 795, 797, 798, 799, 800, 801, 802, 803, 804, 805, 807, 809, 810, 811, 814, 815, 816, 817, 818, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 834, 835, 836, 837, 838, 839, 840, 842, 844, 845, 846, 847, 849, 852, 853, 856, 857, 858, 860, 861, 864, 865, 866, 867, 868, 870, 873, 875, 877, 878, 879, 885, 886, 893, 895, 899, 901, 903, 905, 908, 914, 916, 921, 922, 923, 925, 927, 928, 929, 930, 931, 932, 933, 936, 937, 939, 941, 942, 945, 946, 947, 949, 953, 958, 961, 962, 966, 968, 969, 970, 973, 974, 976, 979, 980, 982, 983, 984, 985, 986, 988, 992, 993, 994, 995, 996, 998, 999, 1002, 1004, 1006, 1007, 1008, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1018, 1019, 1020, 1021, 1023.

Periodicity...of pathogen (SR) - 20, 22, 31, 33, 38, 54, 59, 69, 110, 133, 141, 154, 156, 181, 200, 209, 248, 260, 261, 263, 266, 267, 268, 269, 282, 297, 324, 346, 348, 360, 361, 362, 367, 491, 492, 570, 574, 576, 580, 582, 612, 613, 649, 654, 675, 686, 691, 703, 722, 744, 785, 791, 805, 807, 809, 814, 823, 840, 844, 845, 856, 914, 916, 931, 948, 949, 983, 984, 996, 1008, 1010, 1013.

Philosophy...see History.

Photo interpretation...see Remote sensing.

Physiology...disease - see Etiology.

Physiology...fungus (PS) - 5, 6, 7, 20, 22, 23, 31, 49, SO, 52, 55, 56, 57, 58, 59, 70, 71, 73, 74, 79, 85, 98, 100, 107, 109, 110, 117, 118, 123, 127, 133, 141, 145, 156, 157, 159, 160, 179, 180, 183, 186, 187, 210, 214, 215, 219, 232, 259, 262, 267, 269, 275, 279, 281, 282, 283, 289, 293, 295, 297, 333, 341, 361, 370, 377, 380, 399, 413, 414, 430, 431, 440, 442, 443, 445, 448, 450, 464, 478, 481, 491, 492, 507, 514, 515, 516, 542, 557, 563, 568, 578, 582, 590, 595, 596, 598, 612, 613, 614, 618, 646, 682, 690, 691, 695, 707, 708, 744, 745, 746, 753, 754, 758, 768, 777, 778, 780, 783, 791, 792, 796, 804, 805, 807, 809, 811, 813, 814, 816, 822, 824, 825, 836, 840, 845, 849, 870, 875, 880, 901, 908, 930, 936, 949, 954, 955, 957, 964, 965, 966, 970, 972, 973, 975, 977, 983, 996, 998, 1008, 1010, 1012, 1013, 1014, 1017, 1019, 1020, 1021, 1022.

Phytotoxicity (PX)...see also Resistance - 61, 85, 91, 108, 110, 156, 259, 262, 289, 294, 318, 366, 372, 374, 375, 376, 377, 439, 451, 481, 510, 534, 565, 574, 589, 594, 595, 596, 657, 707, 708, 791, 955, 956, 957, 973.

Prevention...of disease (PR) - 72, 91, 200, 202, 217, 256, 271, 289, 325, 357, 372, 374, 375, 376, 377, 378, 434, 439, 463, 481, 500, 510, 519, 531, 564, 565, 571, 573, 574, 578, 580, 584, 594, 596, 639, 646, 658, 665, 680, 706, 707, 708, 715, 726, 754, 757, 767, 786, 791, 844, 876, 946, 961.

Quarantine - see Control...other.

Range...disease - see Disease range.

Range...host - see Host range (species affected).

Remote sensing (RM) - 39, 43, 102, 103, 120, 200, 234, 238, 239, 240, 241, 242, 243, 310, 311, 312, 314, 315, 316, 326, 351, 352, 416, 417, 484, 504, 521, 560, 624, 716, 818, 928, 929, 967, 969, 1006.

Resistance...of host to wilt (RS) - 70, 71, 84, 109, 266, 268, 275, 341, 374, 441, 442, 443, 445, 516, 556, 557, 590, 658, 693, 706, 709, 757, 837, 889, 931, 970, 984.

Root and butt...host symptom location (RB) - 12, 20, 22, 53, 82, 84, 98, 181, 225, 249, 250, 254, 302, 324, 338, 349, 425, 434, 447, 464, 495, 501, 504, 512, 513, 547, 548, 552, 641, 649, 674, 681, 718, 727, 729, 740, 765, 784, 785, 788, 791, 792, 805, 863, 876, 910, 913, 939, 997, 1000, 1013, 1014.

Silviculture - see Ecology...general.

Slash...damage to (SL) - 107, 162, 260, 263, 267, 269, 349, 362, 418, 494, 602, 691, 908, 937.

Spore - see Dispersal.

Spread - see Dispersal or Vectoring.

Staining - see Other effect...pathogen on host.

Survey methods - see Methods...field.

Survey reports (SV) - 2, 13, 27, 28, 29, 32, 39, 41, 42, 43, 44, 47, 49, 87, 91, 99, 103, 112, 114, 118, 120, 137, 155, 161, 165, 167, 171, 177, 182, 191, 199, 200, 201, 204, 210, 214, 218, 219, 221, 222, 223, 228, 231, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 252, 253, 255, 258, 274, 293, 301, 303, 304, 308, 309, 310, 311, 312, 314, 315, 316, 317, 318, 319, 321, 322, 326, 328, 334, 340, 346, 350, 351, 352, 356, 358, 359, 363, 364, 365, 392, 393, 395, 396, 412, 416, 432, 444, 449,

Survey reports (cont.) - 452, 460, 466, 477, 482, 483, 484, 486, 488, 489, 490, 504, 505, 514, 520, 521, 522, 523, 527, 530, 532, 558, 559, 561, 570, 571, 572, 574, 575, 576, 579, 605, 609, 617, 624, 626, 627, 629, 630, 632, 638, 640, 665, 670, 692, 698, 700, 704, 712, 713, 714, 716, 717, 719, 720, 721, 727, 735, 749, 758, 759, 768, 774, 775, 795, 798, 801, 809, 814, 818, 822, 828, 829, 830, 847, 848, 853, 865, 868, 872, 873, 876, 886, 887, 891, 896, 897, 898, 901, 902, 903, 904, 921, 928, 933, 934, 941, 942, 950, 951, 959, 960, 967, 968, 969, 974, 976, 979, 982, 988, 990, 991, 1002, 1005, 1006, 1012.

Survival - see Periodicity.

Taxonomy---fungus (TN) - 45, 52, 80, 117, 123, 124, 153, 215, 327, 379, 419, 459, 610, 655, 755, 766, 824, 870, 925.

Taxonomy---host - see Dendrology.

Theories - see History.

Tools - see Equipment.

Urban site---host environment **(RN)** - 17, 54, 69, 72, 118, 129, 131, 161, 163, 164, 204, 205, 219, 223, 252, 253, 255, 256, 336, 337, 367, 369, 375, 392, 400, 401, 411, 415, 461, 464, 465, 479, 480, 481, 483, 496, 513, 524, 546, 570, 572, 574, 575, 576, 580, 586, 594, 602, 611, 634, 636, 639, 680, 681, 684, 726, 727, 730, 741, 754, 781, 782, 786, 797, 802, 803, 810, 823, 827, 829, 837, 838, 839, 844, 865, 870, 921, 925, 926, 927, 928, 929, 931, 945, 946, 958, 961, 967, 986, 987, 992, 993, 1012.

Utilization---of residual wood (TZ) - 109, 266, 268, 367, 418, 484, 485, 690, 805, 841, 876, 937.

Vector - see Entomology.

Vectoring---process **(VN)** - 16, 18, 27, 43, 62, 65, 83, 90, 147, 148, 149, 150, 151, 152, 174, 196, 200, 210, 212, 216, 244, 265, 285, 303, 318, 323, 324, 340, 348, 381, 383, 384, 385, 386, 387, 388, 389, 415, 434, 435, 436, 438, 448, 470, 482, 493, 494, 495, 528, 534, 548, 555, 562, 576, 583, 584, 586, 620, 646, 655, 668, 669, 672, 673, 696, 702, 703, 710, 713, 721, 722, 723, 725, 728, 730, 731, 732, 733, 734, 736, 741, 758, 766, 783, 784, 787, 797, 817, 844, 860, 876, 880, 905, 912, 916, 917, 920, 947, 948, 953, 983, 985, 990, 991, 1016.

Wilt... process (WL) - 5, 8, 9, 11, 13, 20, 21, 22, 25, 27, 28, 29, 31, 32, 36, 37, 38, 39, 40, 41, 43, 44, 45, 46, 47, 50, 57, 58, 59, 60, 63, 64, 65, 69, 72, 73, 74, 75, 76, 77, 78, 81, 82, 83, 85, 89, 90, 91, 94, 95, 96, 98, 100, 101, 102, 103, 105, 107, 109, 110, 112, 113, 116, 117, 118, 119, 120, 122, 124, 127, 128, 129, 130, 131, 132, 133, 135, 136, 137, 138, 139, 140, 141, 146, 147, 148, 150, 151, 152, 155, 157, 158, 159, 160, 161, 163, 164, 165, 167, 170, 174, 177, 179, 181, 182, 184, 188, 191, 193, 197, 202, 203, 204, 207, 210, 211, 212, 213, 214, 217, 218, 219, 220, 221, 222, 223, 224, 225, 231, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 248, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 265, 269, 272, 274, 278, 280, 281, 283, 286, 289, 291, 293, 294, 297, 304, 305, 311, 312, 313, 314, 315, 316, 318, 321, 322, 324, 325, 326, 327, 330, 331, 333, 335, 336, 342, 343, 345, 349, 350, 351, 352, 354, 356, 357, 358, 359, 360, 361, 362, 364, 366, 368, 370, 371, 372, 373, 374, 377, 378, 384, 385, 386, 387, 392, 394, 395, 396, 398, 399, 400, 401, 403, 404, 405, 407, 411, 413, 415, 416, 419, 422, 423, 424, 426, 428, 429, 430, 431, 434, 435, 436, 438, 440, 441, 442, 443, 444, 445, 448, 449, 450, 451, 452, 454, 455, 456, 457, 461, 462, 464, 465, 469, 470, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 488, 492, 493, 495, 496, 497, 499, 500, 501, 503, 504, 505, 507, 508, 509, 512, 513, 515, 517, 519, 520, 521, 522, 523, 524, 526, 528, 534, 536, 537, 538, 543, 544, 545, 546, 547, 549, 552, 556, 558, 559, 563, 566, 568, 570, 571, 572, 573, 574, 575, 576, 579, 580, 584, 585, 588, 589, 590, 593, 594, 596, 597, 598, 599, 603, 606, 607, 611, 612, 613, 614, 615, 616, 619, 620, 621, 631, 632, 635, 636, 637, 639, 640, 643, 646, 647, 648, 649, 654, 655, 657, 658, 659, 660, 661, 665, 667, 670, 671, 673, 675, 680, 681, 683, 686, 687, 688, 689, 690, 691, 692, 693, 694, 701, 703, 704, 706, 707, 708, 709, 713, 714, 715, 716, 718, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 740, 741, 742, 743, 744, 745, 746, 749, 750, 751, 752, 754, 755, 757, 758, 762, 764, 766, 770, 774, 775, 777, 778, 781, 782, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 797, 798, 799, 800, 801, 802, 804, 805, 807, 809, 810, 811, 814, 815, 816, 817, 818, 822, 823, 826, 827, 828, 829, 830, 831, 834, 835, 836, 837, 838, 839, 840, 842, 845, 846, 847, 848, 849, 852, 854, 855, 857, 859, 860, 861, 864, 865, 867, 868, 872, 873, 874, 875, 876, 877, 878, 879, 880, 886, 887, 889, 893, 895, 898, 901, 921, 922, 923, 925, 928, 929, 930, 931, 932, 933, 938, 939, 941, 942, 945, 946, 947, 949, 952, 953, 954, 956, 957, 959, 960, 961, 962, 966, 967, 968, 969, 974, 976, 979, 982, 983, 985, 986, 988, 993, 995, 996, 998, 999, 1002, 1004, 1005, 1006, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1018, 1020, 1021, 1022, 1023.

Wood...damage to - see Slash... damage to.

Wounding . . . of host (DM) - 45, 59, 108, 151, 197, 244, 248, 371, 373, 401, 410, 450, 487, 491, 538, 646, 671, 675, 694, 714, 722, 725, 813, 815, 826, 834, 846, 856, 876, 932, 983, 986, 1018.

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